

FIG. 1

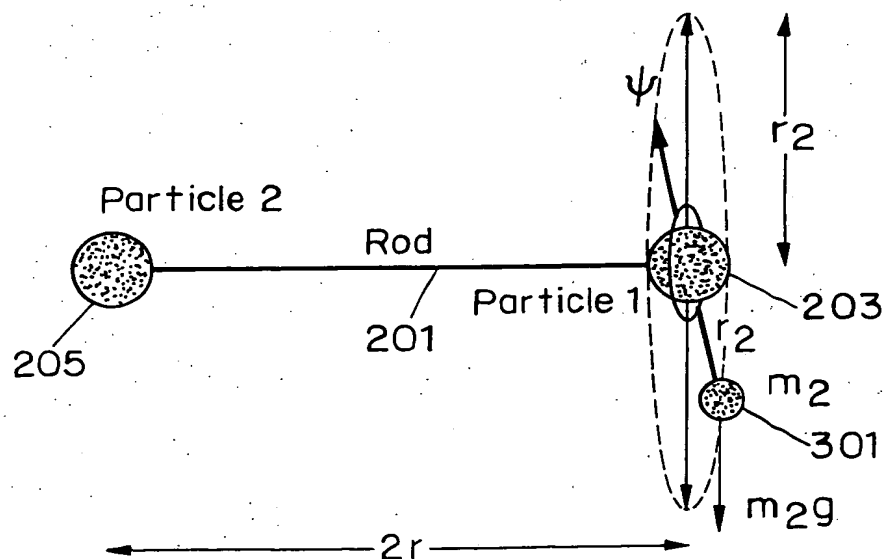


FIG. 3

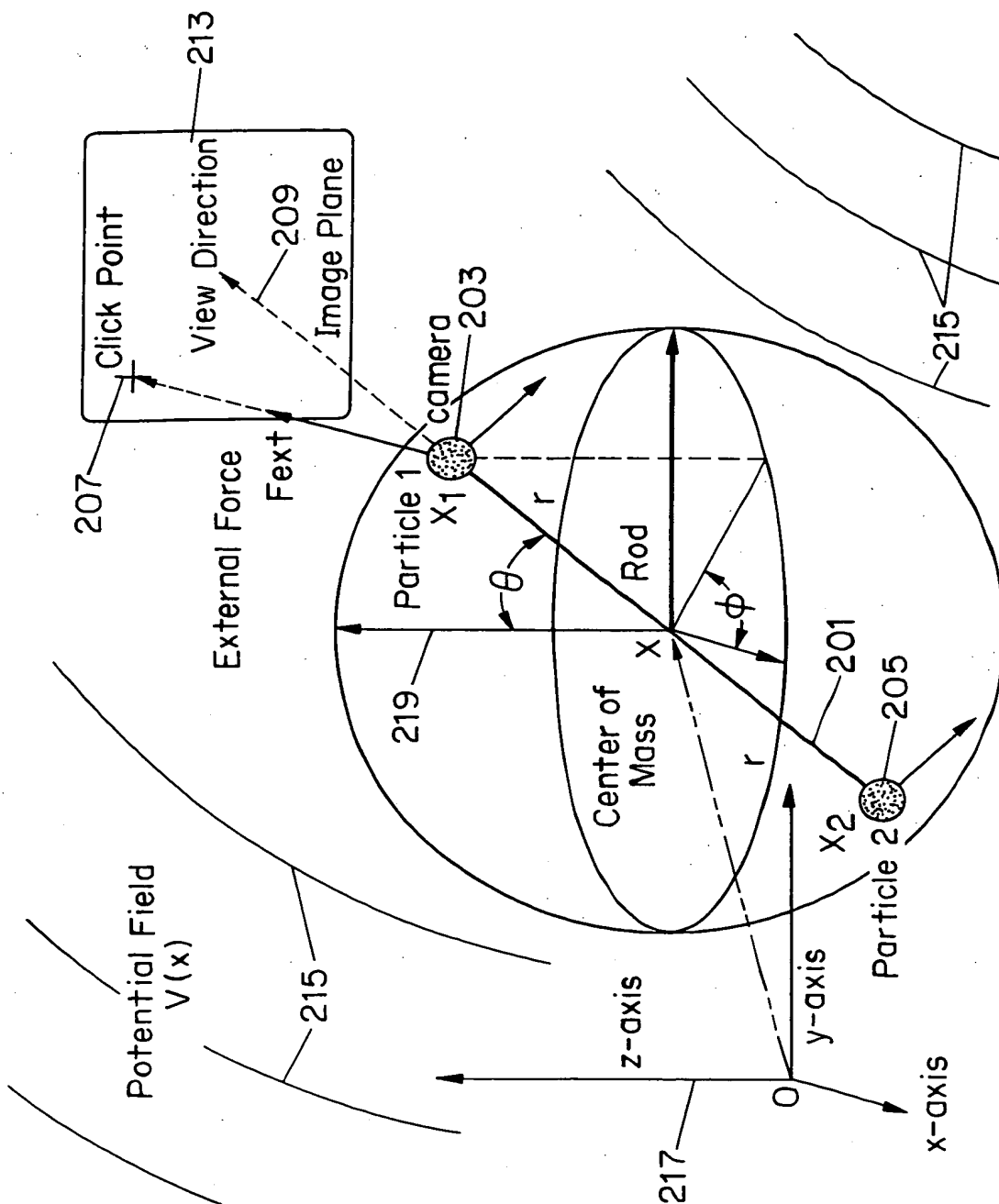


FIG. 2

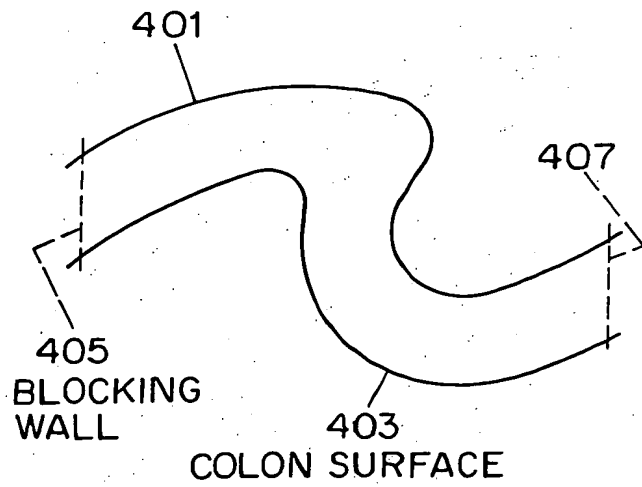


FIG. 4

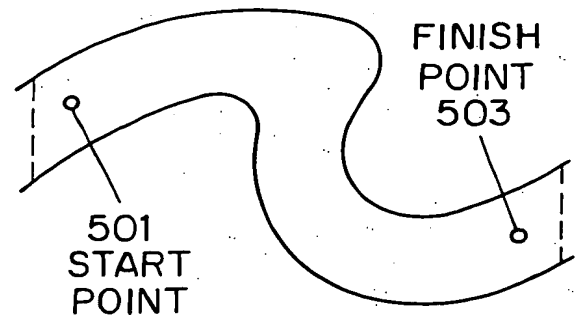


FIG. 5

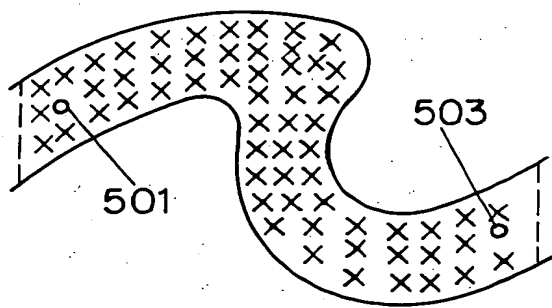


FIG. 6

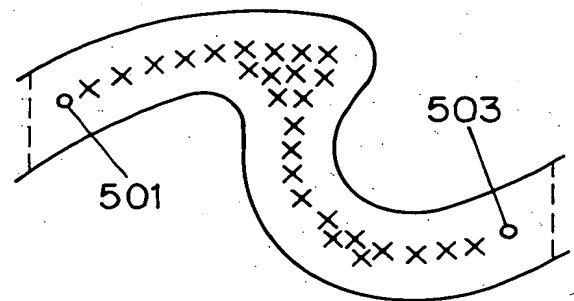


FIG. 7

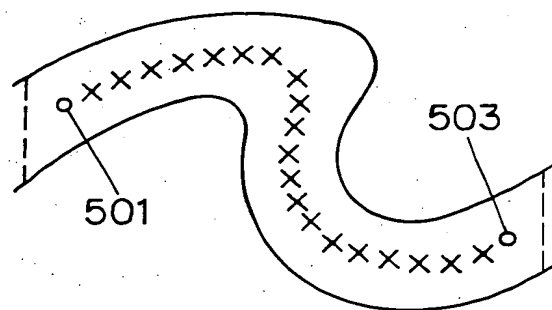


FIG. 8

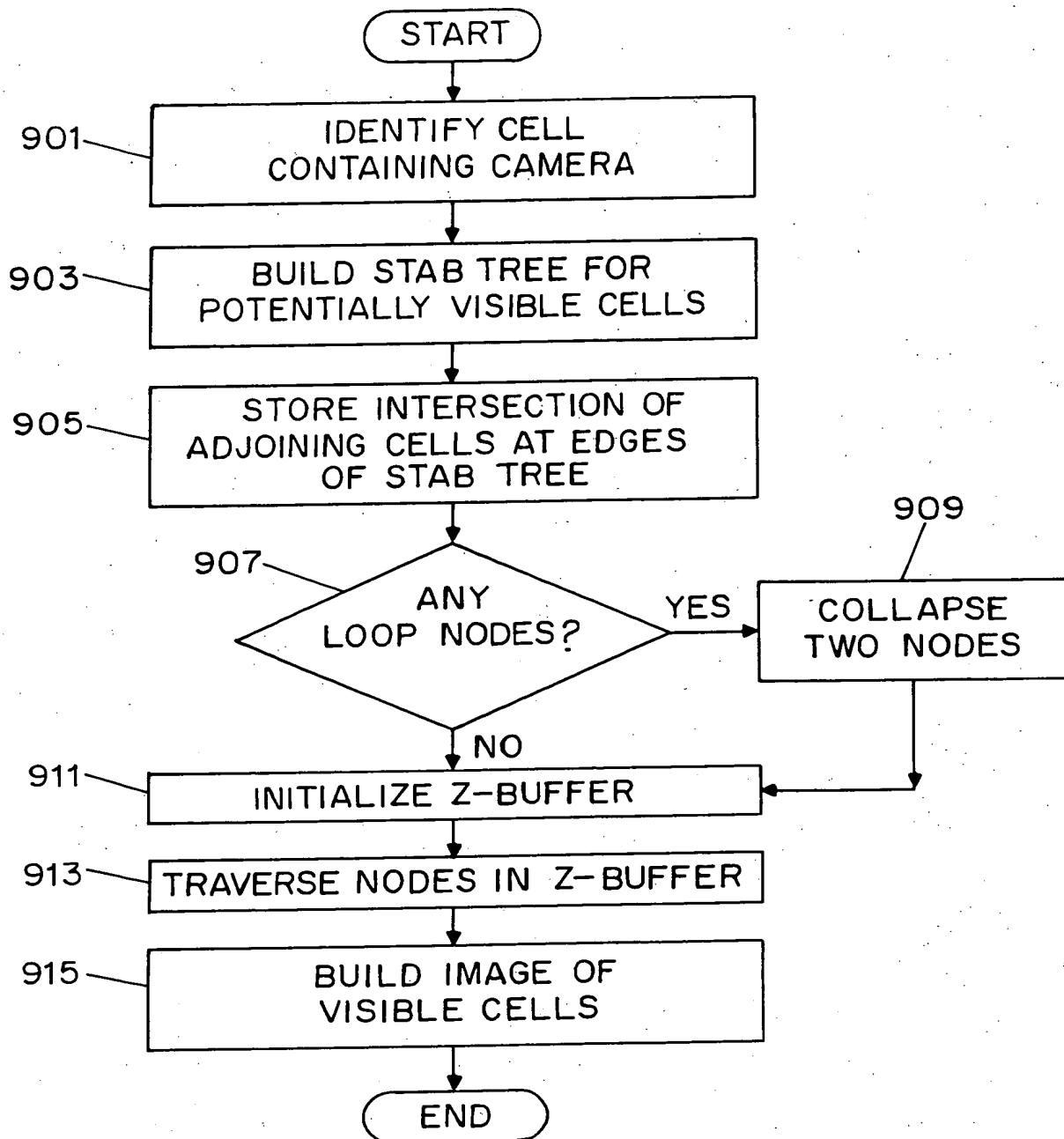


FIG. 9

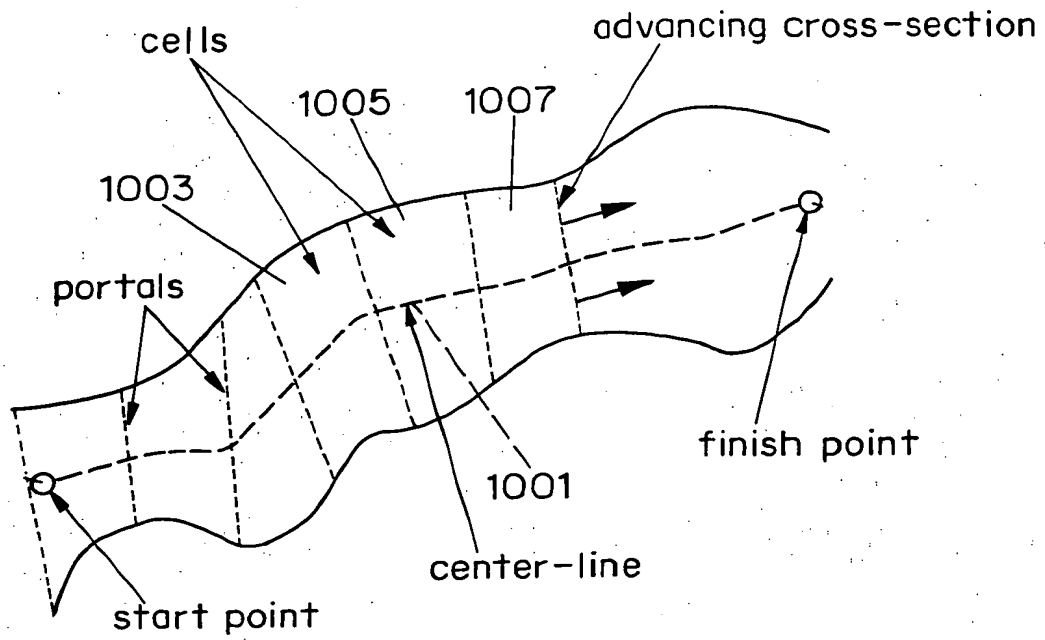


FIG. 10

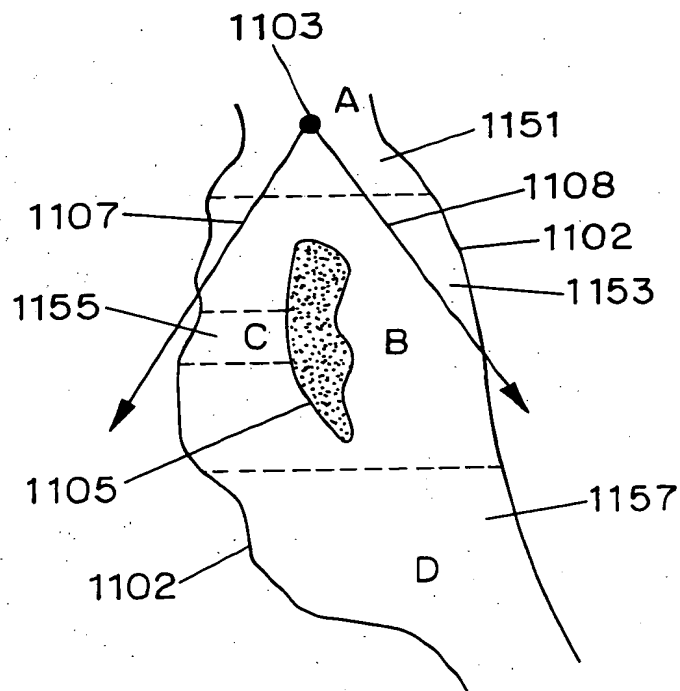


FIG. 11(a)

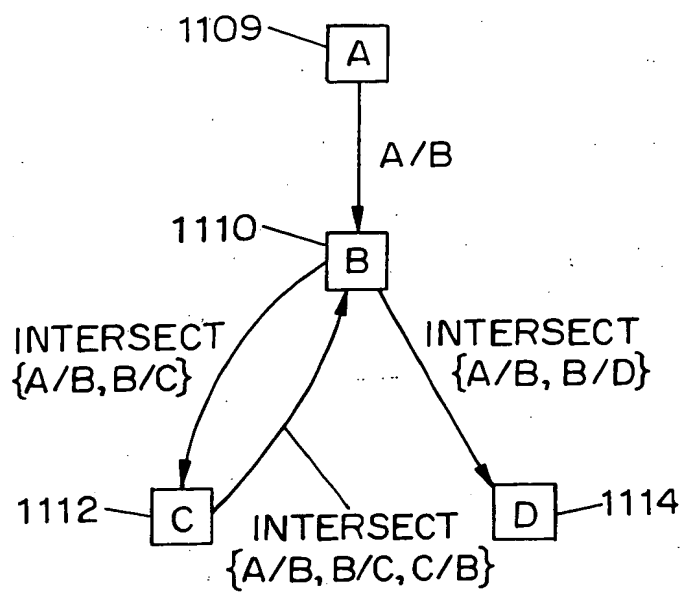


FIG. 11(b)

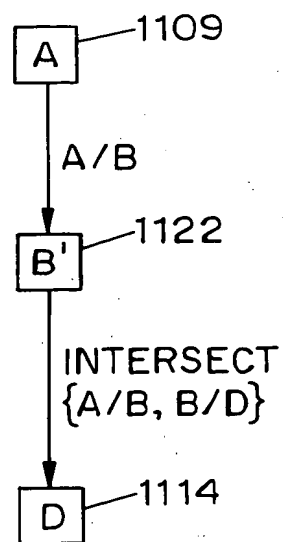


FIG. 11(c)

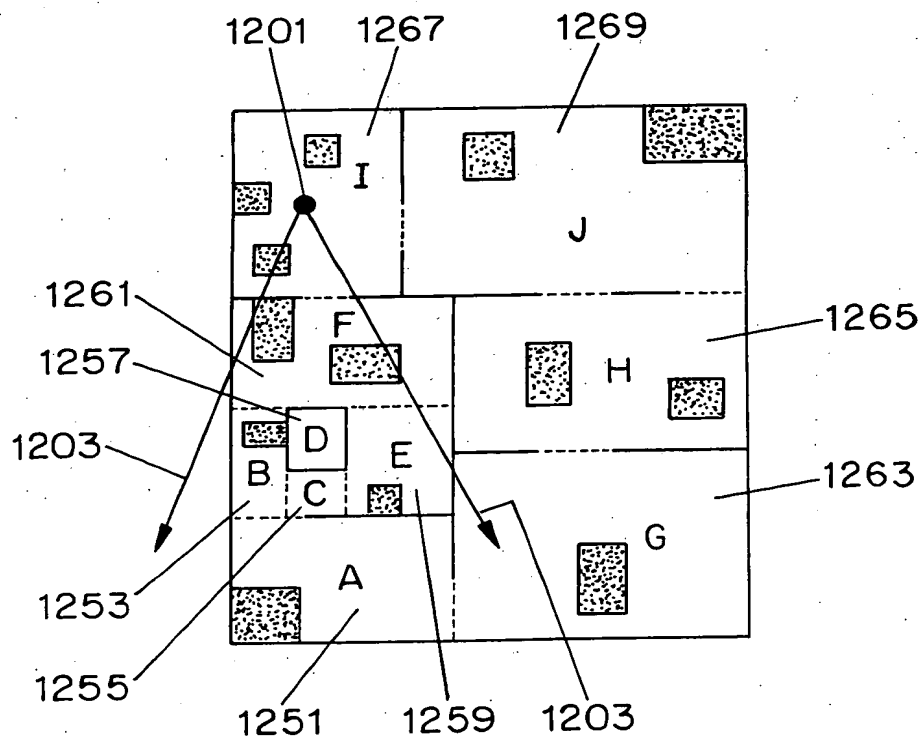


FIG. 12(a)

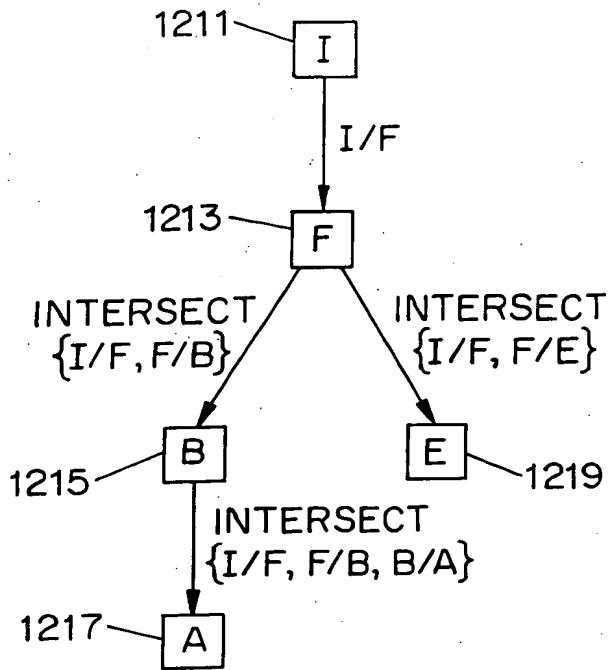
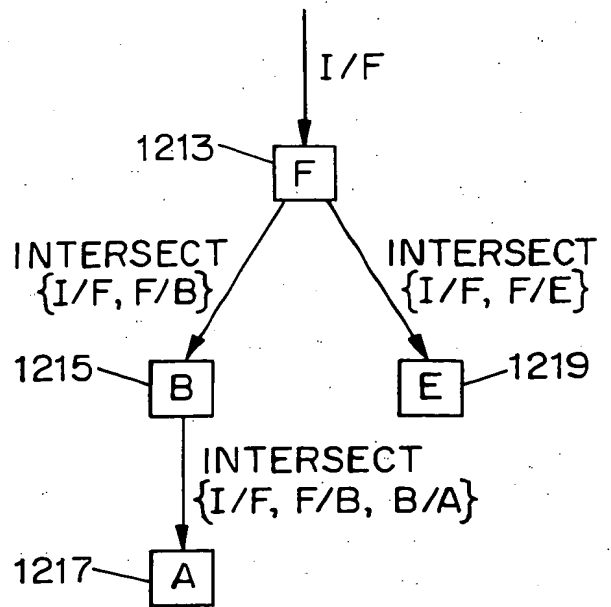


FIG. 12(b)



RENDERED NODES {I}  
SKIPPED NODE { }

FIG. 12(c)

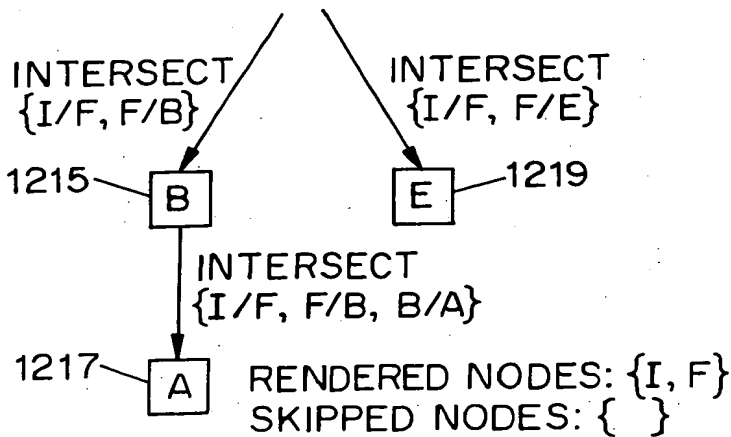
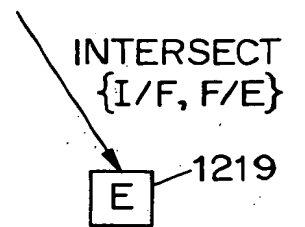


FIG. 12(d)



RENDERED NODES: {I, F}  
SKIPPED NODES: {A, B}

FIG. 12(e)

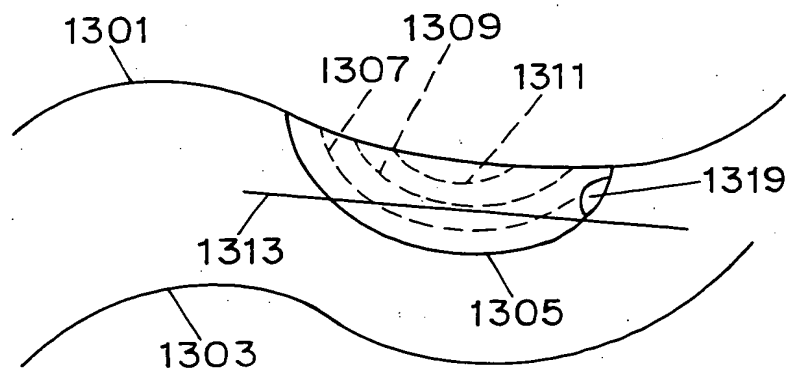


FIG. 13

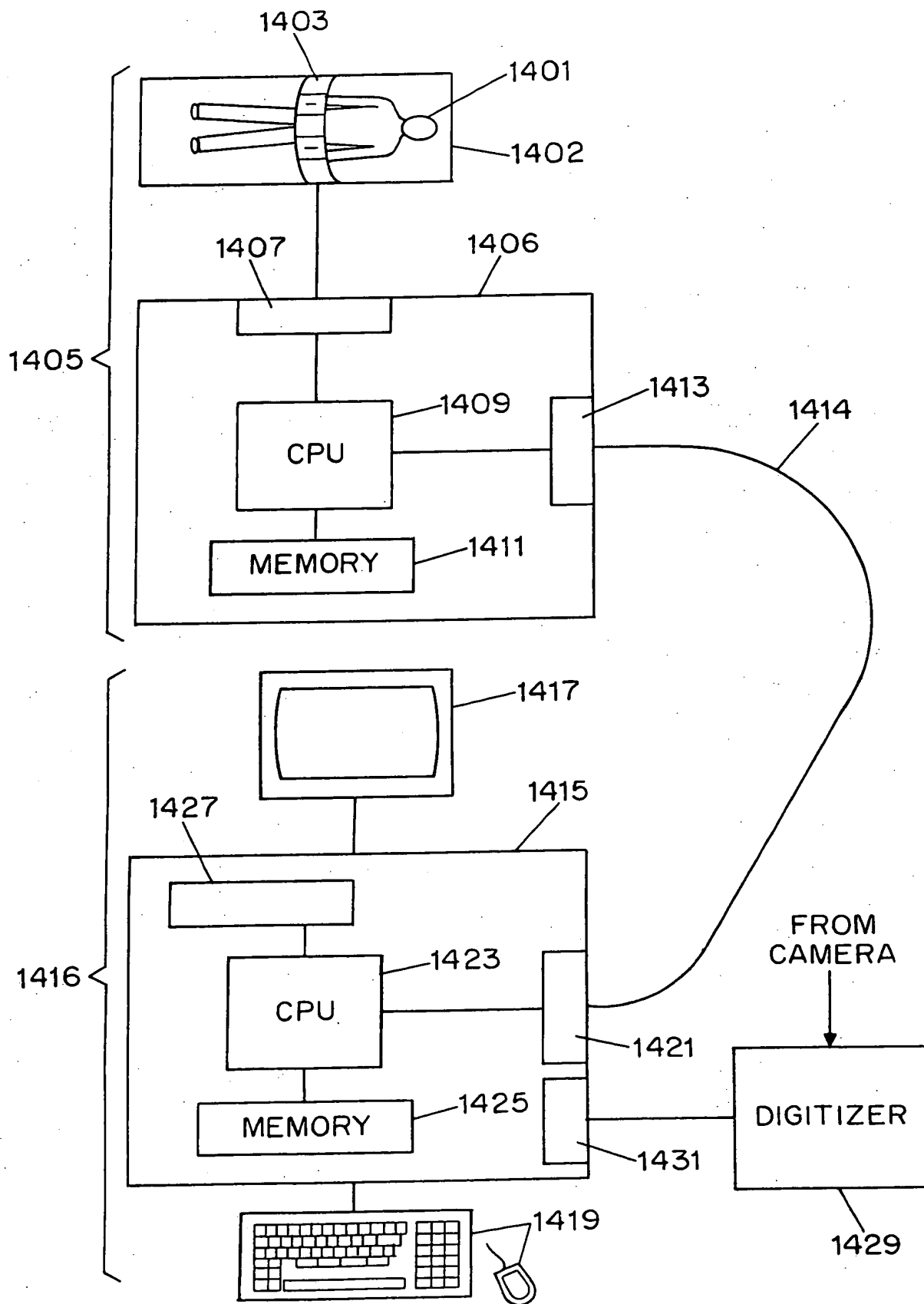


FIG. 14



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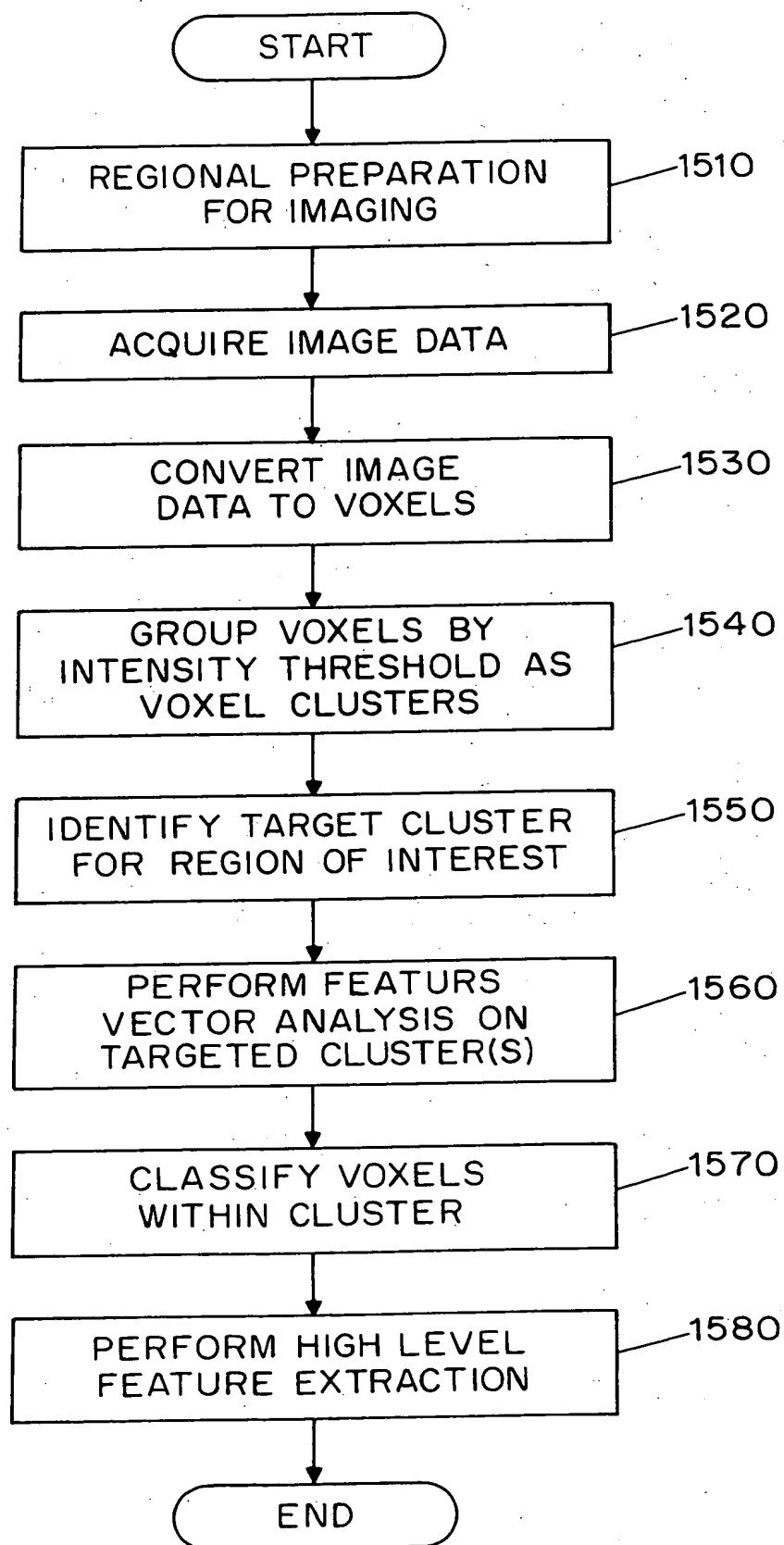


FIG. 15

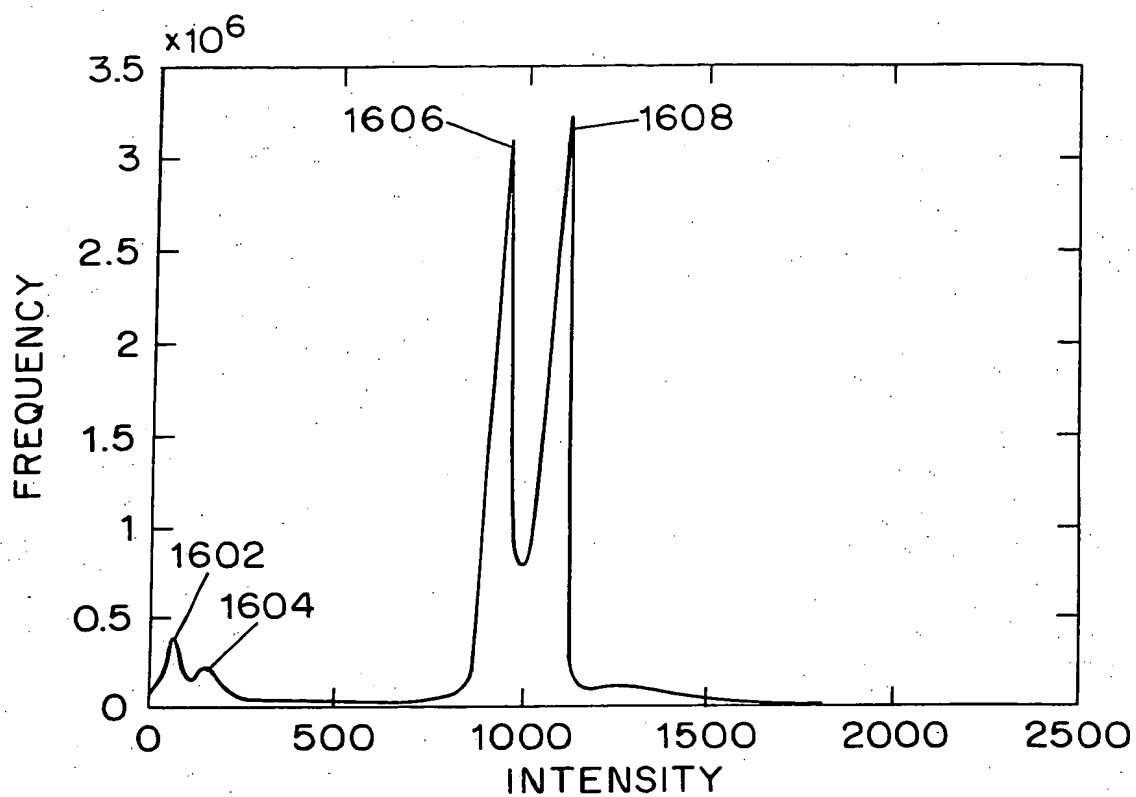


FIG. 16

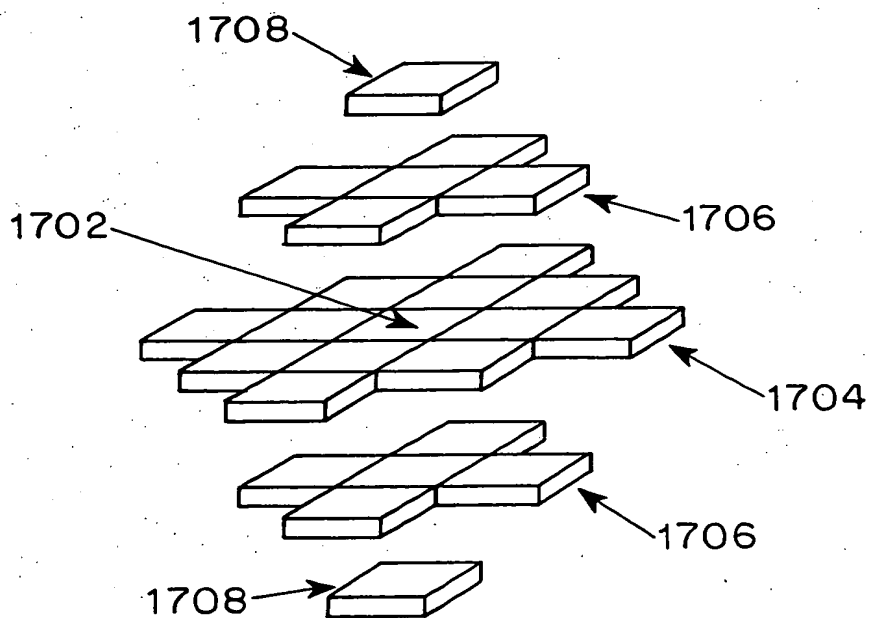


FIG. 17

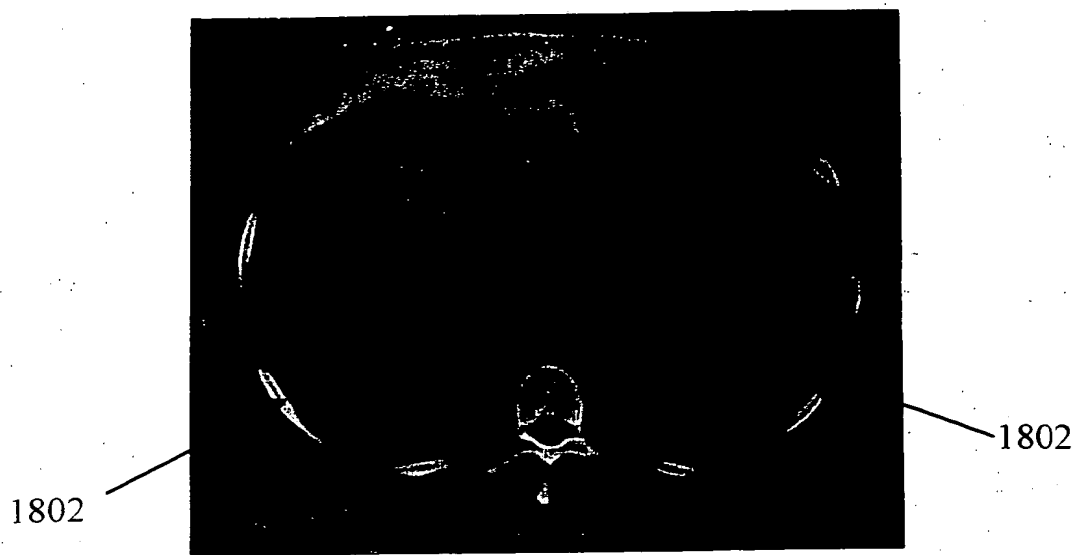


FIG. 18A

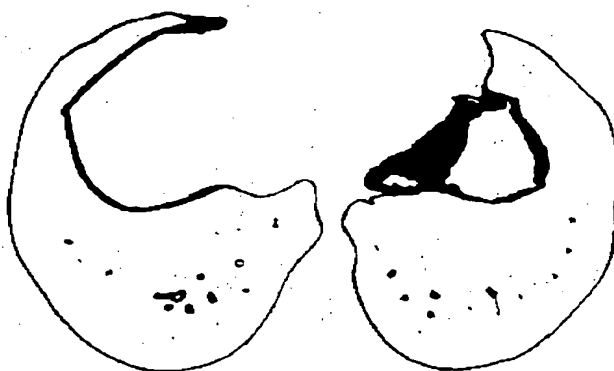


FIG. 18B

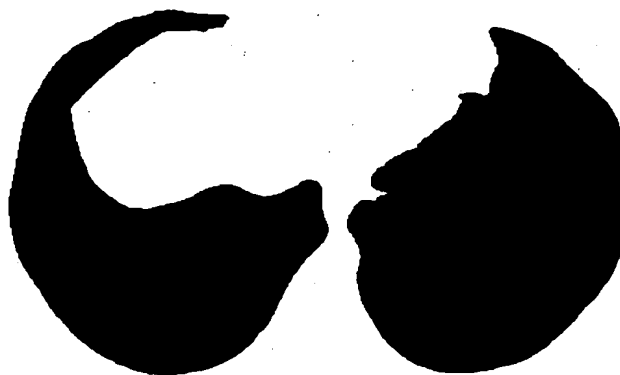


FIG. 18C

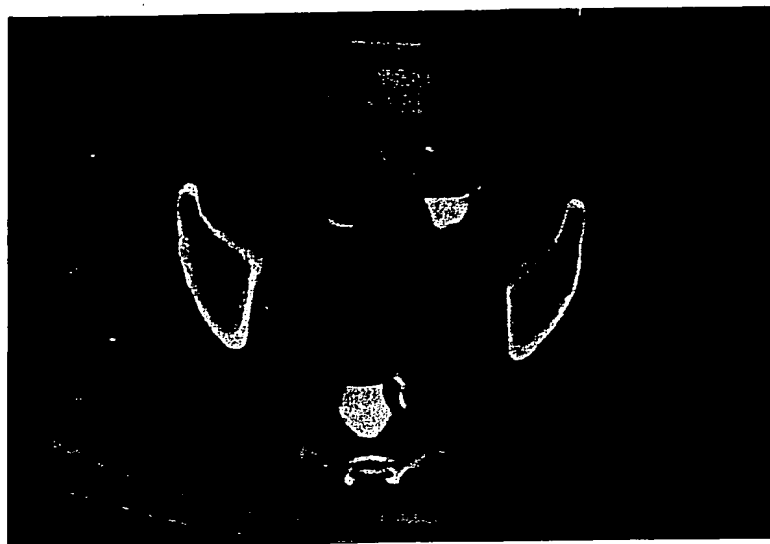


FIG. 19A

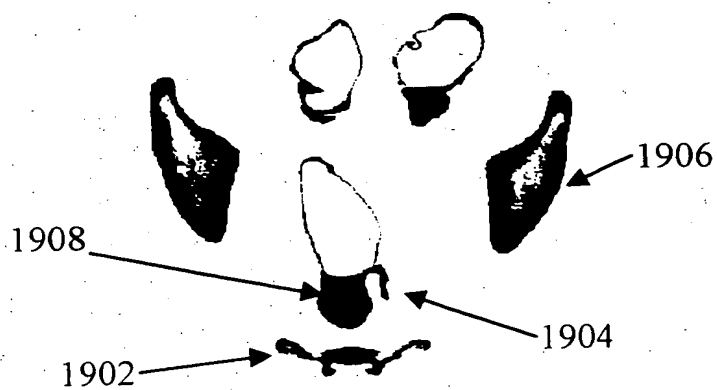


FIG. 19B

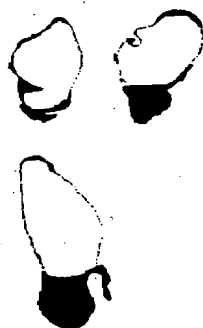


FIG. 19C

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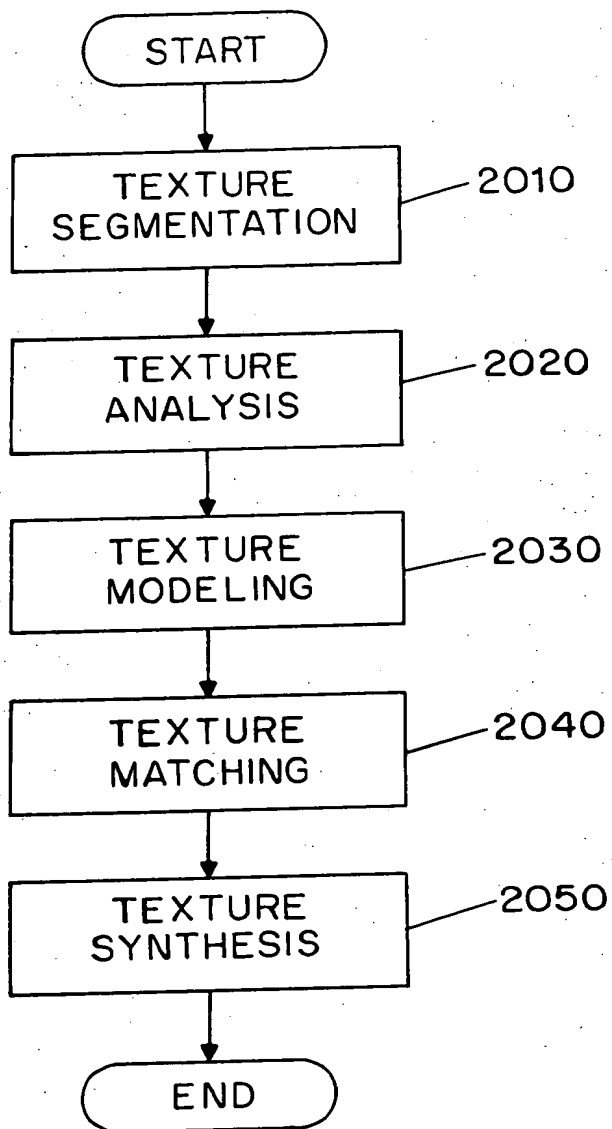


FIG. 20

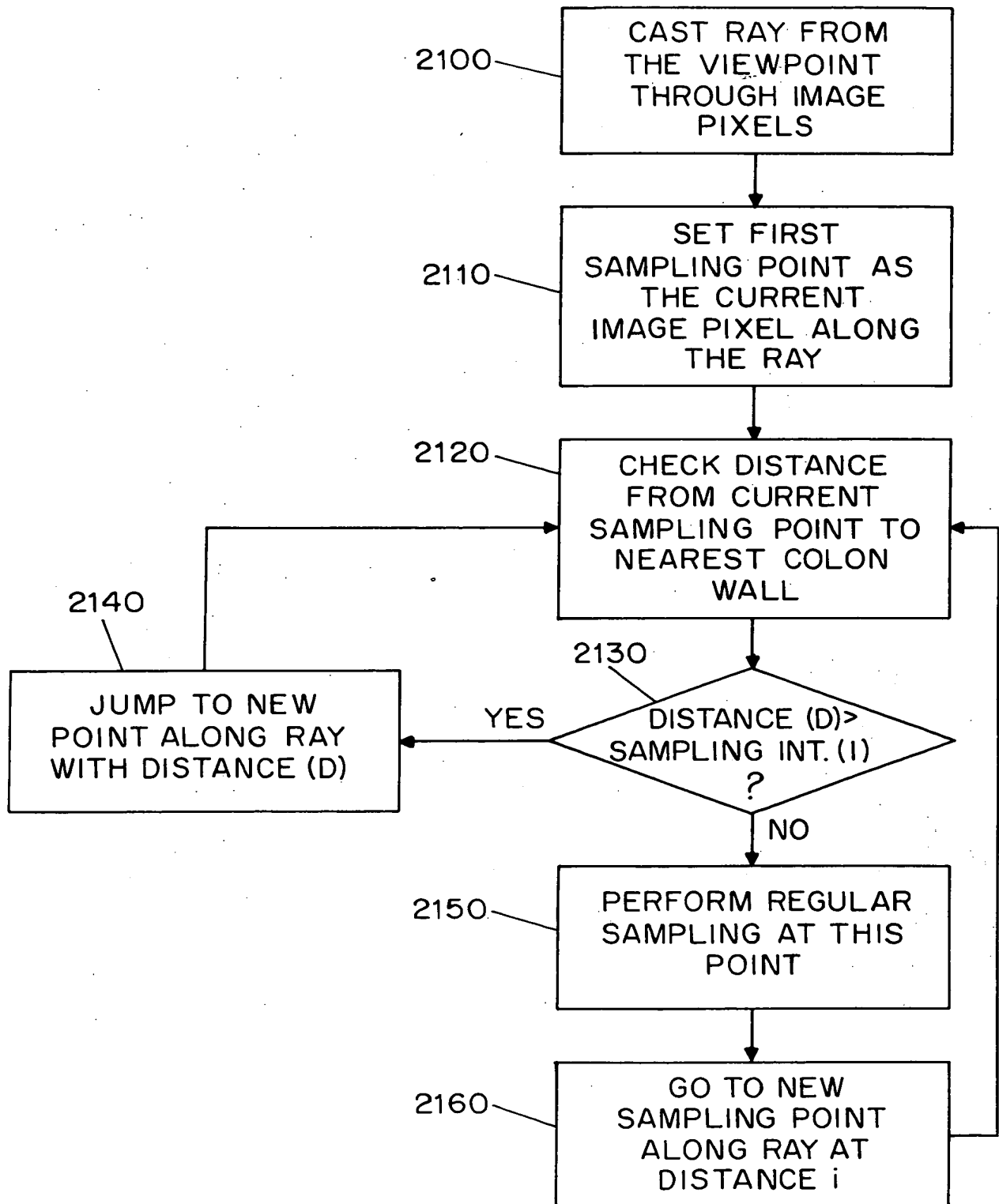


FIG. 21

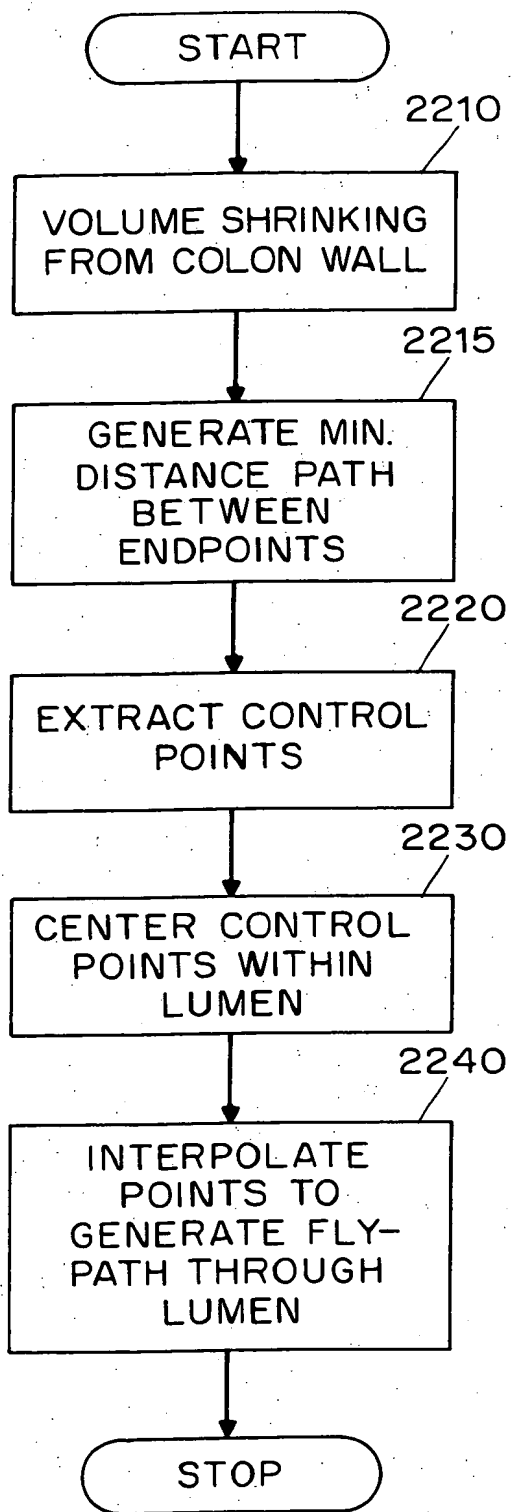


FIG. 22

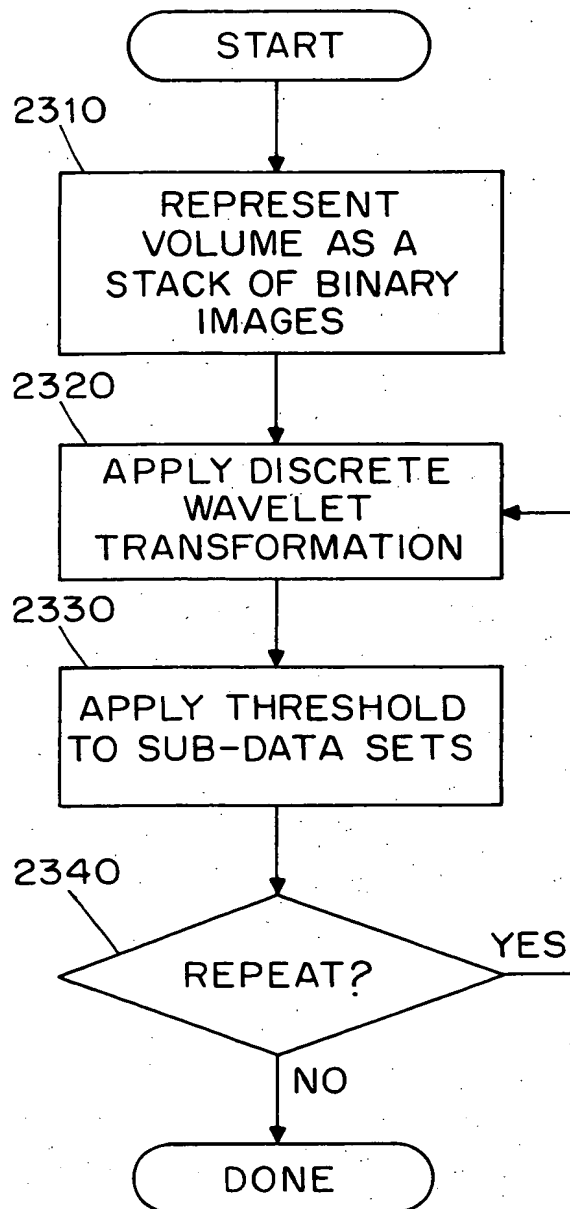


FIG. 23

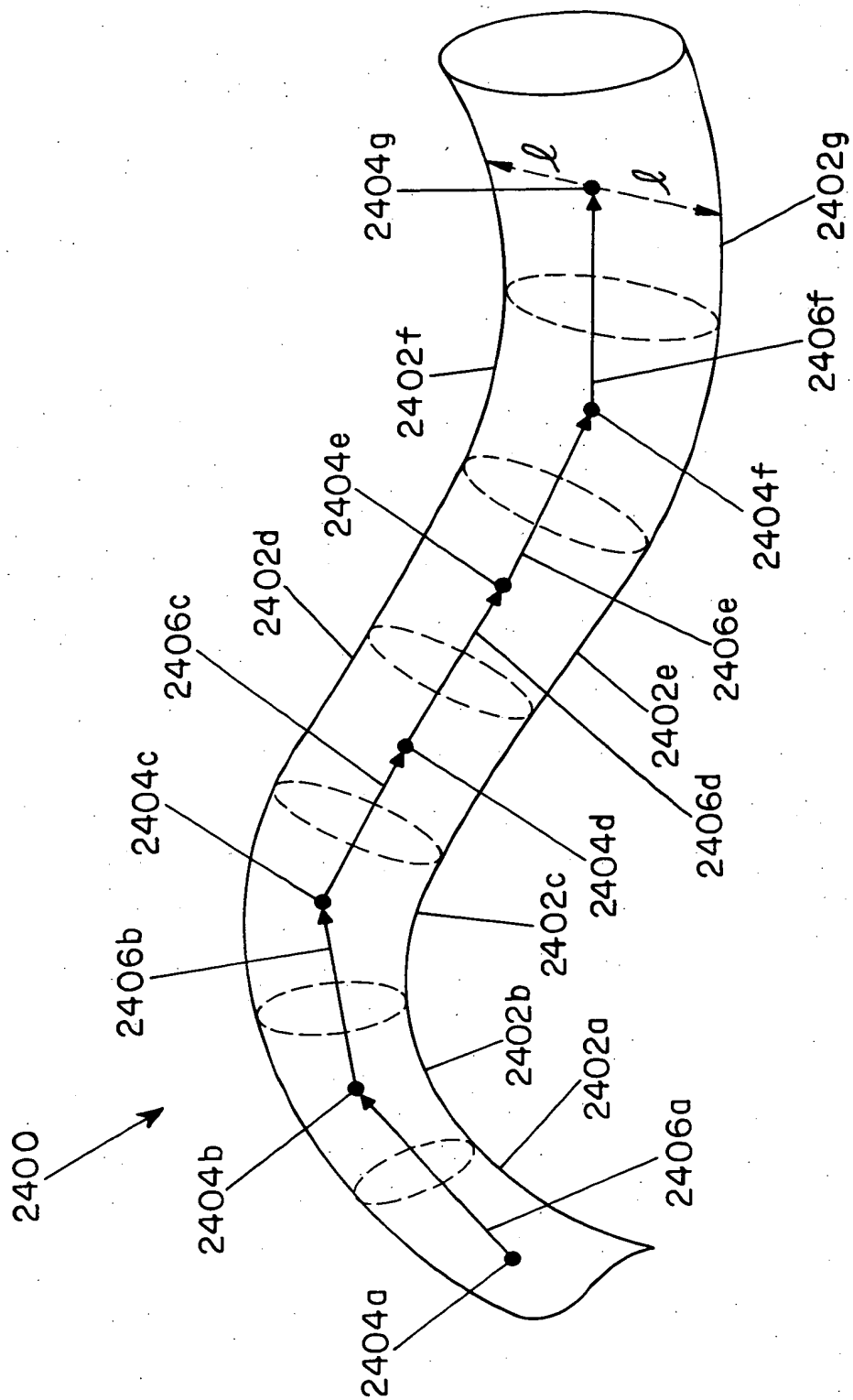


FIG. 24



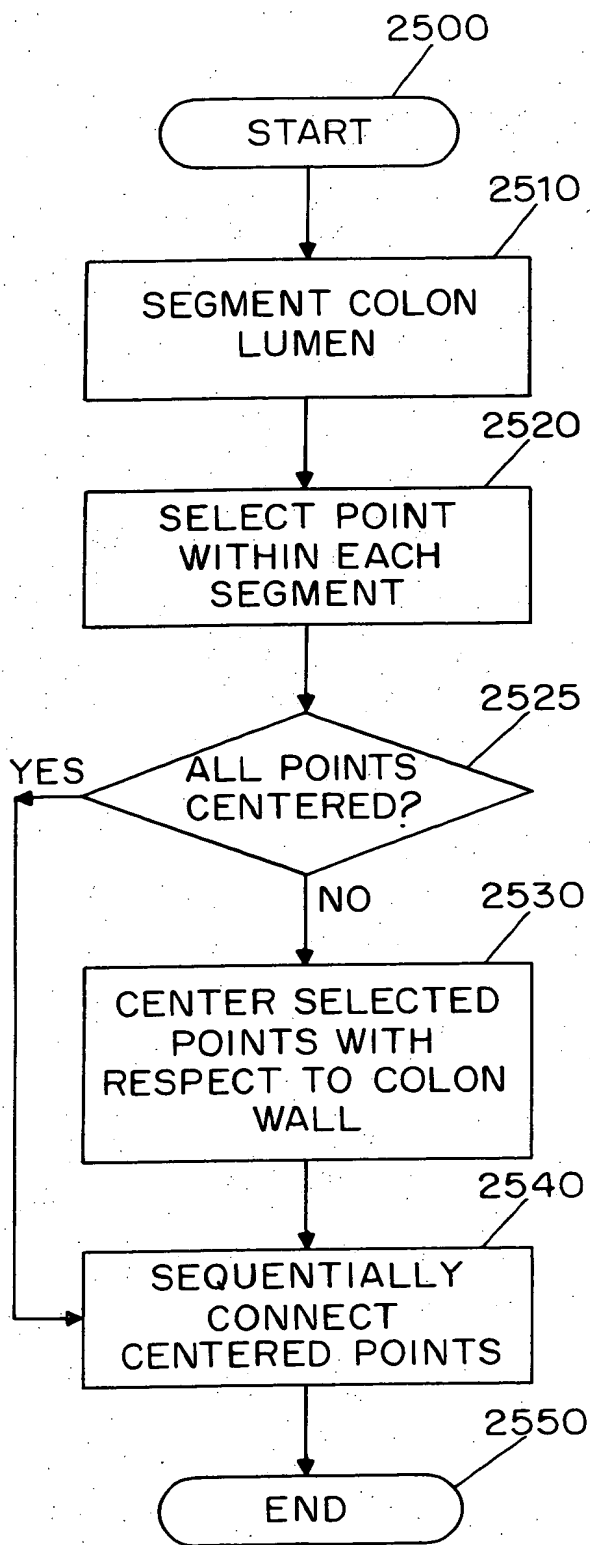


FIG. 25

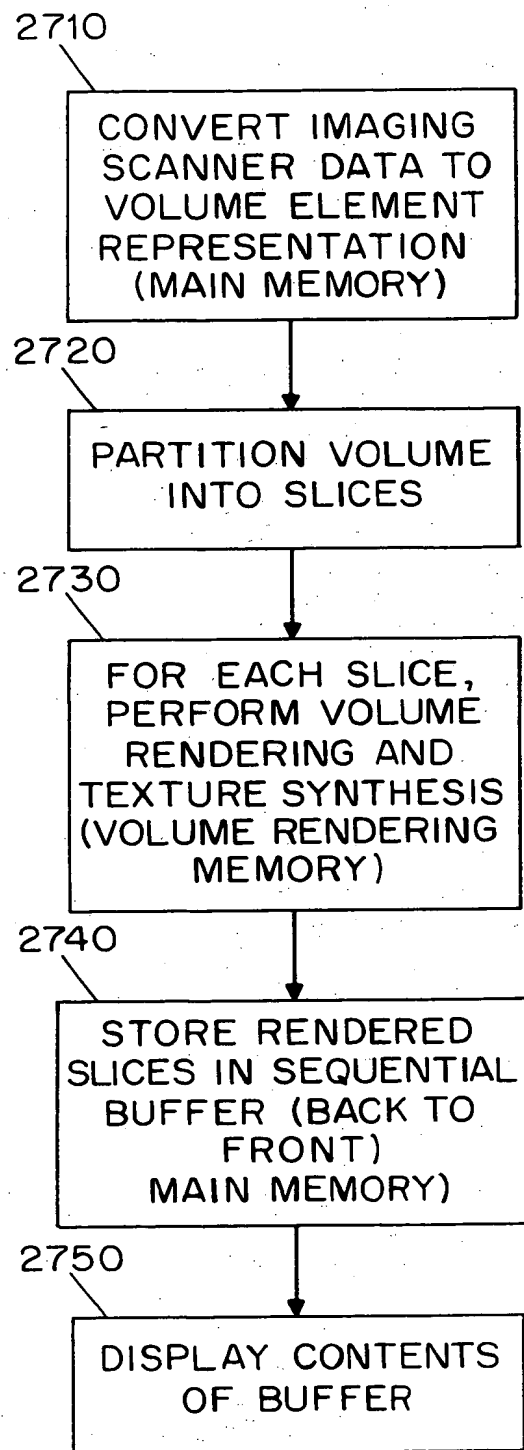


FIG. 27

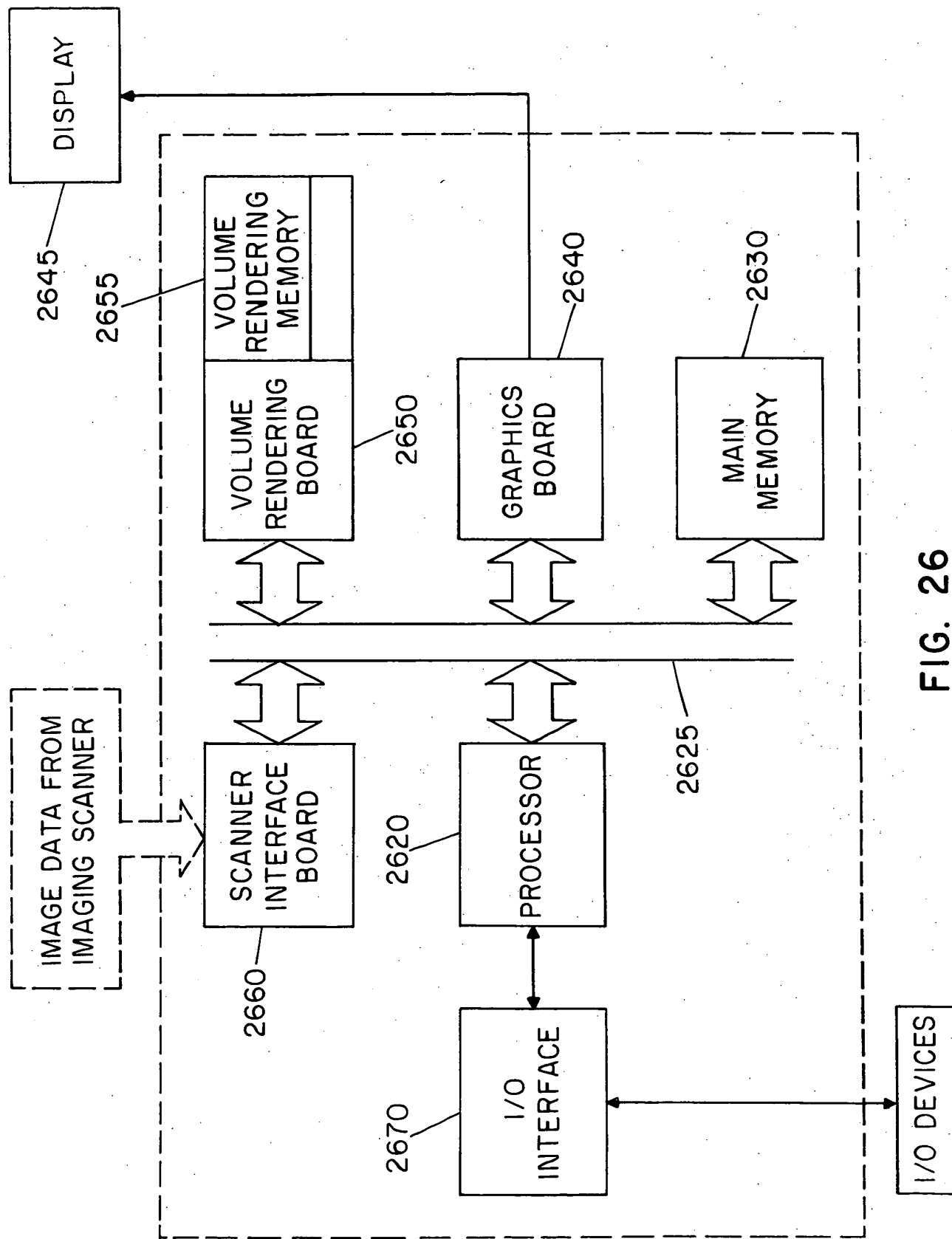
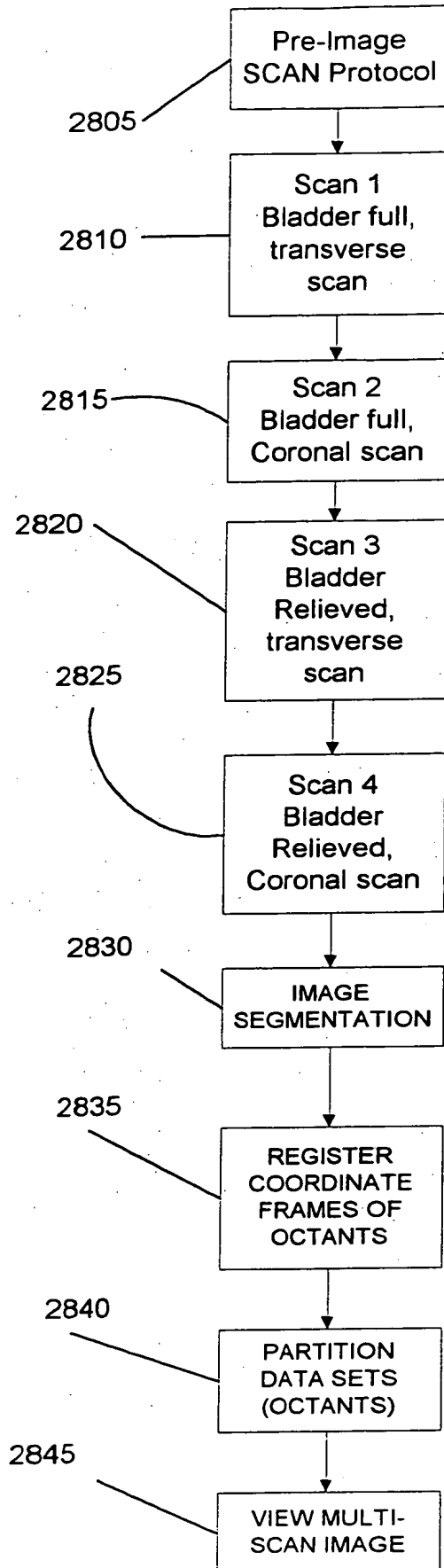


FIG. 26

Fig. 28



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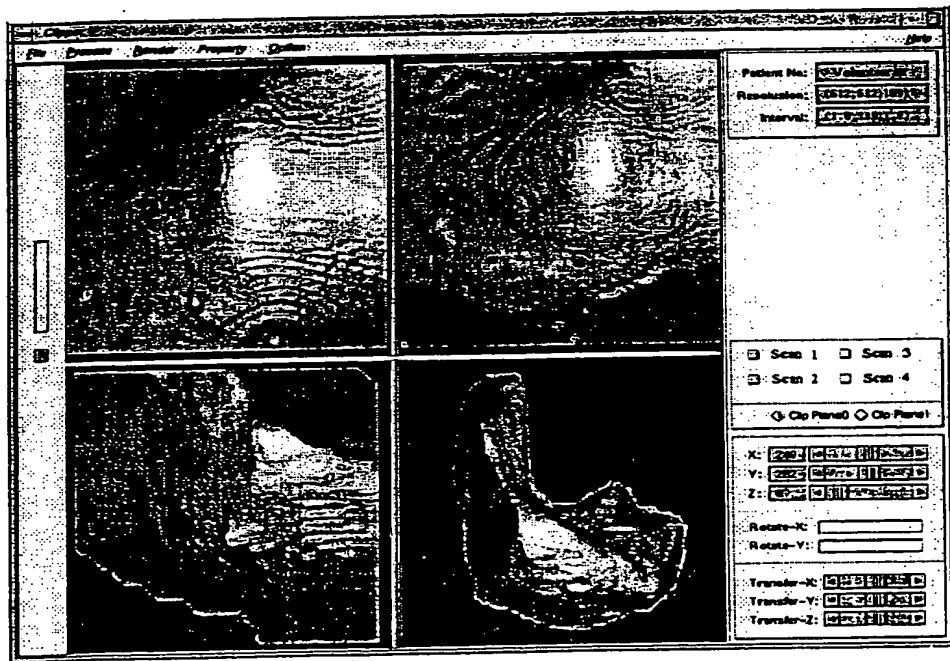
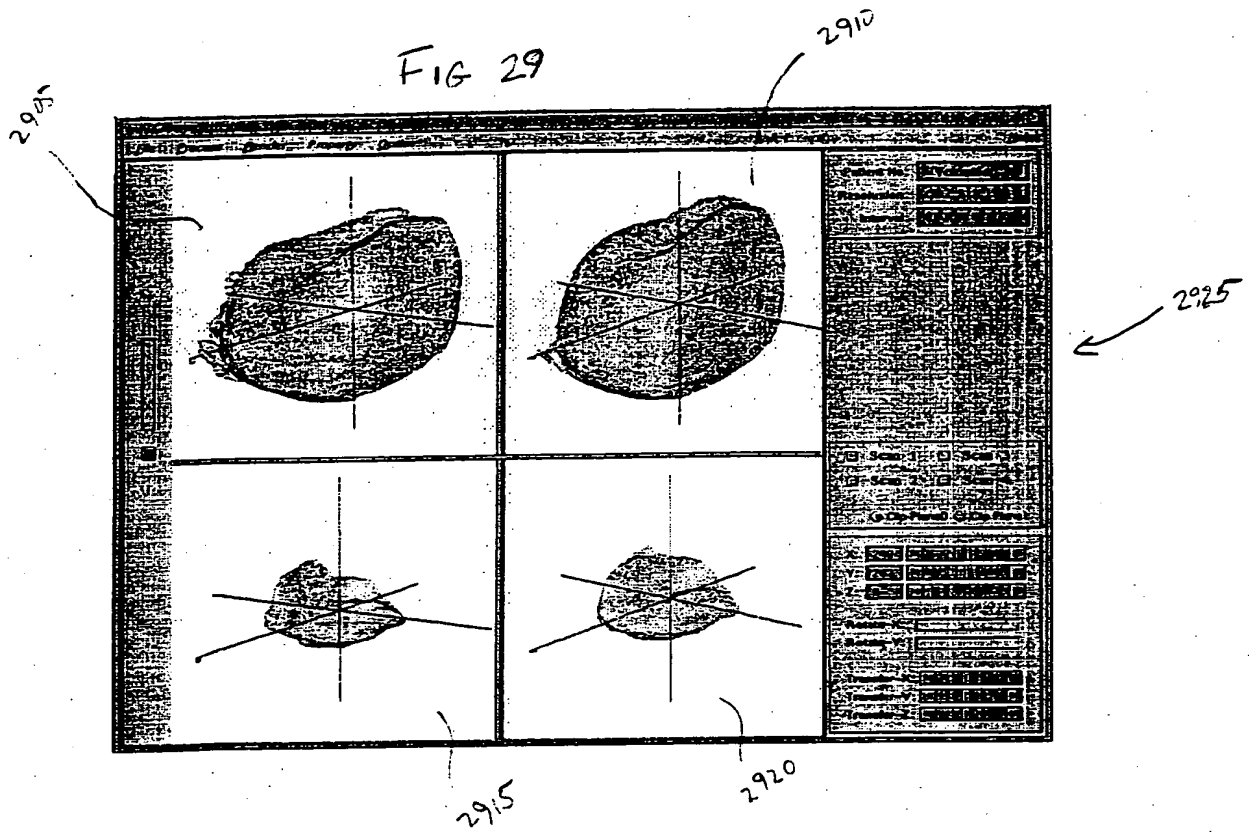
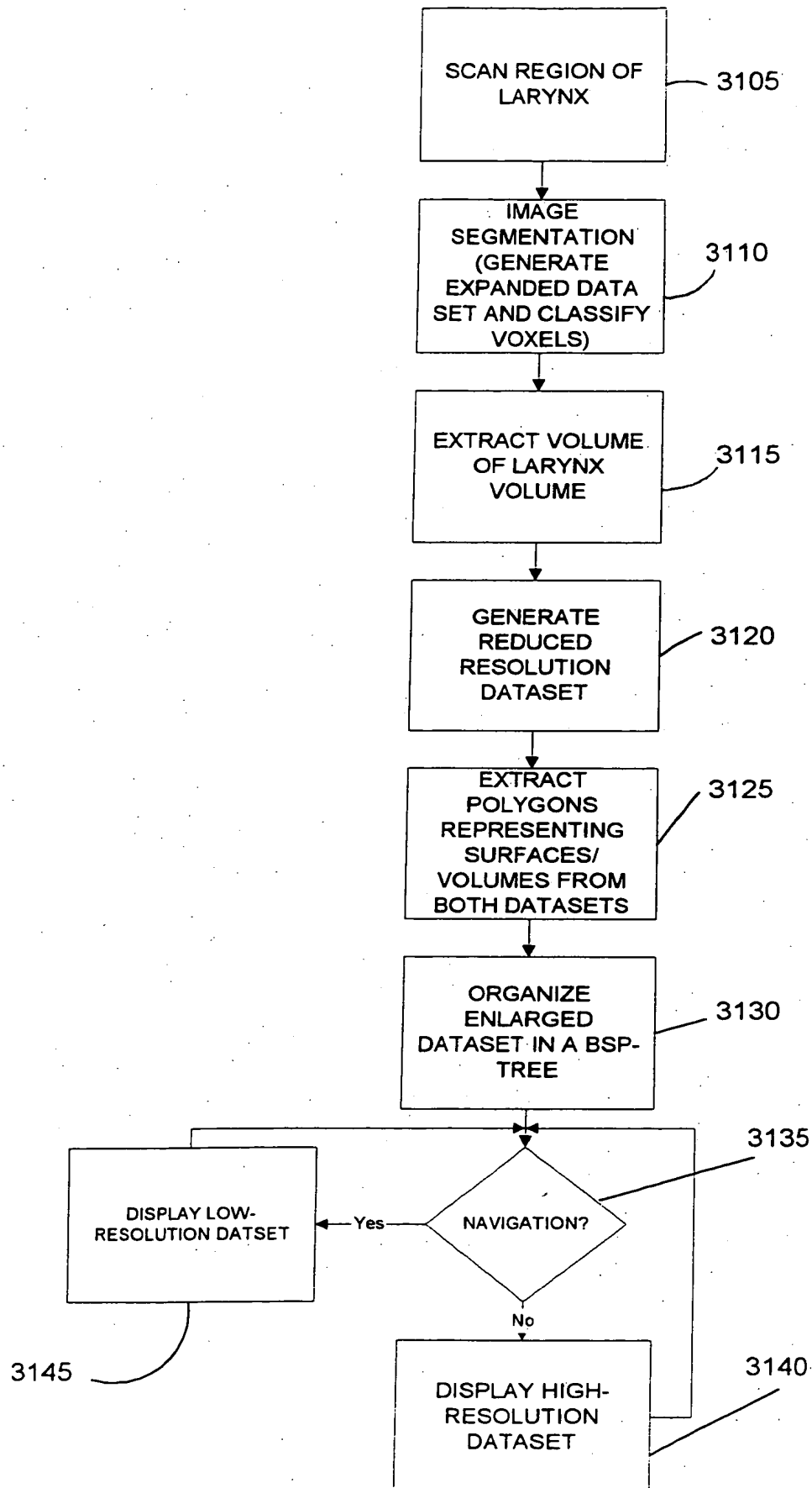


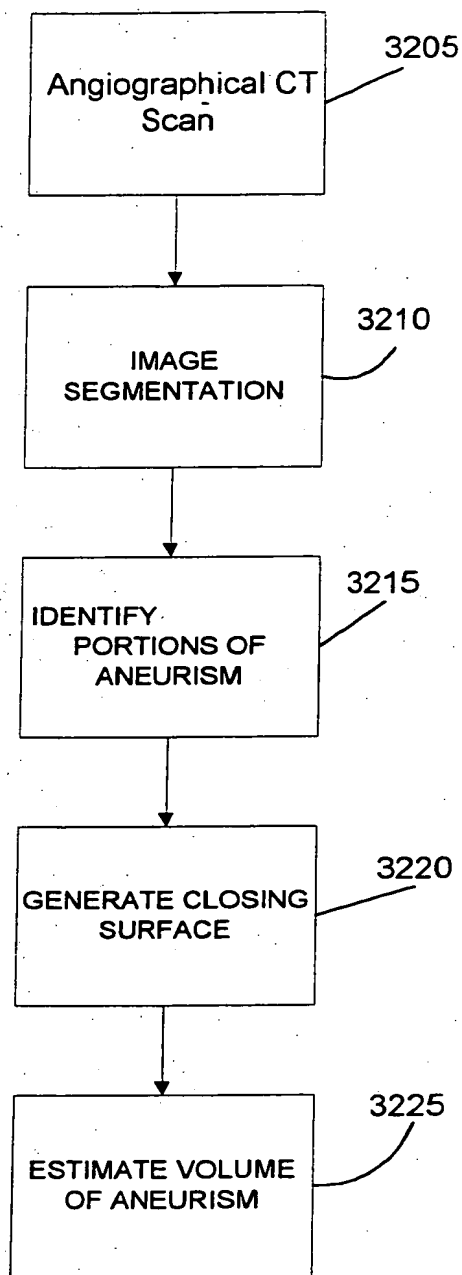
FIG. 30

FIG. 31



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FIG. 32



0977120 051501

FIG. 33A

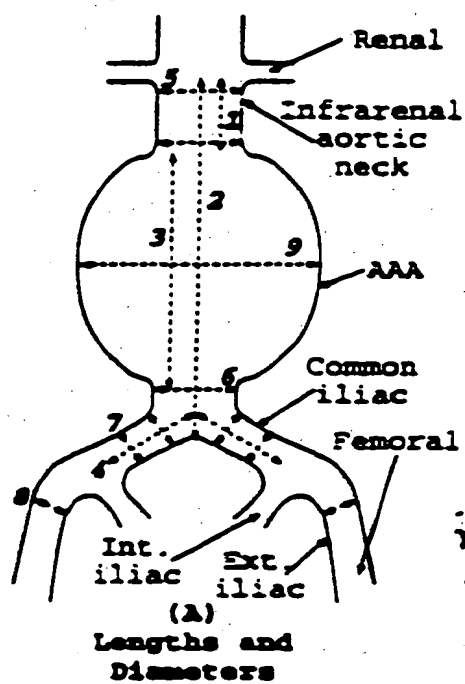


FIG. 33B

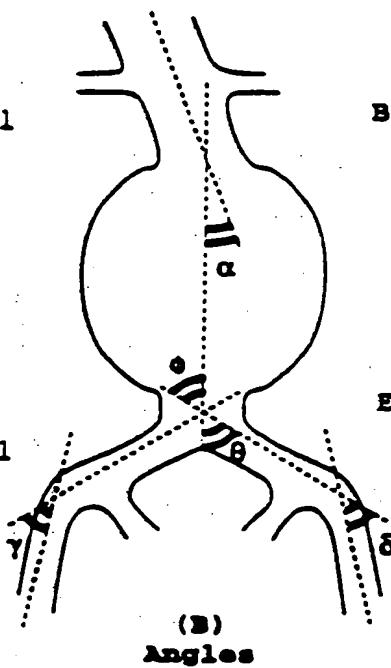
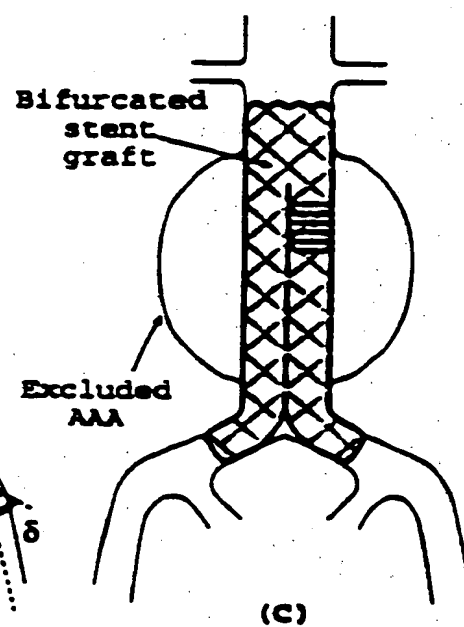
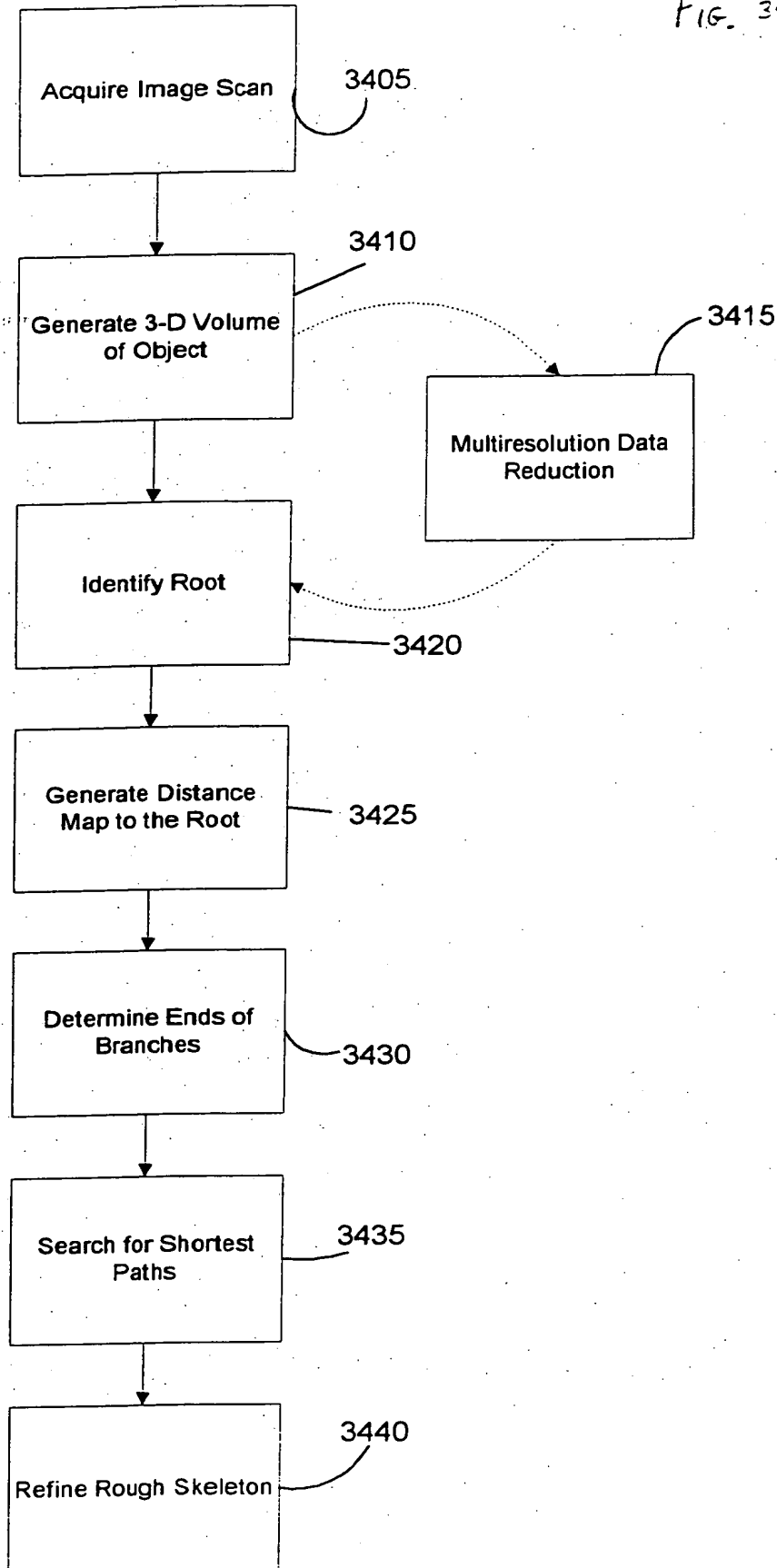


FIG. 33C



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FIG. 34



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FIG. 35

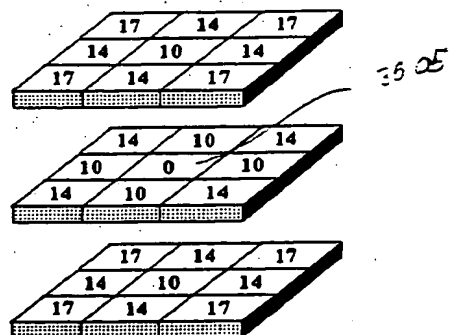


FIG. 36

```

1) Label root voxel with integer 0;
2) Construct a queue and line up the root in the queue;
3) If( There is at least one voxel in the queue )
    Serve the voxel x on the top of the queue:
    For( each of x's 26-connected neighbor voxel y ) {
        If( y in the volume and has not been labeled yet ) {
            Line up the y in the queue;

            /* label the voxel y */
            Set dist = 999999 ;
            For( each of y's 26-connected neighbor voxel z ) {
                If( z in the volume and has been already labeled with an integer of  $n_z$  ) {
                     $d_z \equiv n_z + d(y, z)$ ;
                    where  $d(y, z)$  is 10, 14 or 17 if the Euclidean distance between y and z is
                    1,  $\sqrt{2}$ , or  $\sqrt{3}$ , respectively;
                }
                If( dist >  $d_z$  ) {
                    label y with integer dist ;
                    dist =  $d_z$ ;
                }
            }
        }
    }
    x leaves the queue;
}
Else {
    end of calculating the distance map.
}

```